

AUTOMATIC OPTIMIZATION OF  
DOPPLER DISPLAY PARAMETERS

Abstract of the disclosure:

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10 In an ultrasonic diagnostic imaging system, the parameters which govern the display of Doppler information are automatically optimized to make better use of the display range or area. Spectral Doppler information may be used to optimize a spectral display or a colorflow display, and colorflow Doppler information may be used to optimize a spectral display or a colorflow display. The optimization may be invoked by a manual user control which automatically optimizes one or a plurality of display parameters. Automatic optimization may be invoked only when called for by the user, or periodically after a time interval, a given number of heart cycles, or when the user has made a change to the display or imaging mode. Preferably the optimization processor runs continuously in the background so that optimized parameters are available immediately when called for. The optimization processor may utilize "hidden" Doppler data which has been acquired but is not used for display purposes.

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